PALM Intranet

Application Number [ ] Submit

IDS Flag Clearance for Application 10541036

IDS Information

| Content | Mailroom Date | Entry Number | IDS Review | Last Modified | Reviewer |
|---|---|---|---|---|---|
| EIDS. | 2006-03-30 | 15 | Y ☑ | 2006-09-29 15:47:07.0 | CNguyen1 |
| Update | | | | | |

A

10/541,036

# Refine Search

Your wildcard search against 10000 terms has yielded the results below.
***Your result set for the last L# is incomplete.***
The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.

**Search Results -**

| Terms | Documents |
|---|---|
| L12 and (simulat$ same sens$) | 0 |

**Database:** US Pre-Grant Publication Full-Text Database; US Patents Full-Text Database; US OCR Full-Text Database; EPO Abstracts Database; JPO Abstracts Database; Derwent World Patents Index; IBM Technical Disclosure Bulletins

**Search:** L13

Refine Search | Recall Text | Clear | Interrupt

## Search History

**DATE: Friday, September 29, 2006** Purge Queries | Printable Copy | Create Case

| Set Name side by side | Query | Hit Count | Set Name result set |
|---|---|---|---|
| *DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR* | | | |
| L13 | L12 and (simulat$ same sens$) | 0 | L13 |
| L12 | L11 and (control$ same (vessel$ or ship$ or boat$)) | 1 | L12 |
| L11 | l6 or l7 or l10 | 107 | L11 |
| *DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR* | | | |
| L10 | (5003477 \| 4796206 \| 4300205 \| 5077670 \| 4862371 \| 4757463 \| 5041976)![PN] | 7 | L10 |
| L9 | ("5214582")[PN] | 1 | L9 |
| *DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR* | | | |
| L8 | l3 | 1 | L8 |

*DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR*

| | | | |
|---|---|---|---|
| L7 | ("5214582")[URPN] | 99 | L7 |

*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR*

| | | | |
|---|---|---|---|
| L6 | L3 | 1 | L6 |

*DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR*

| | | | |
|---|---|---|---|
| L5 | L3 and roll$ | 0 | L5 |
| L4 | L3 and angle$ | 1 | L4 |
| L3 | 5214582.pn. | 1 | L3 |

*DB=PGPB; THES=ASSIGNEE; PLUR=YES; OP=OR*

| | | | |
|---|---|---|---|
| L2 | L1 and angle$ | 1 | L2 |
| L1 | 20060116796 | 1 | L1 |

END OF SEARCH HISTORY

# Refine Search

**Search Results -**

| Terms | Documents |
|---|---|
| L3 and roll$ | 0 |

**Database:** US Pre-Grant Publication Full-Text Database; US Patents Full-Text Database; US OCR Full-Text Database; EPO Abstracts Database; JPO Abstracts Database; Derwent World Patents Index; IBM Technical Disclosure Bulletins

**Search:** L5

Refine Search | Recall Text | Clear | Interrupt

## Search History

**DATE: Friday, September 29, 2006** Purge Queries | Printable Copy | Create Case

| Set Name side by side | Query | Hit Count | Set Name result set |
|---|---|---|---|
| *DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR* | | | |
| L5 | L3 and roll$ | 0 | L5 |
| L4 | L3 and angle$ | 1 | L4 |
| L3 | 5214582.pn. | 1 | L3 |
| *DB=PGPB; THES=ASSIGNEE; PLUR=YES; OP=OR* | | | |
| L2 | L1 and angle$ | 1 | L2 |
| L1 | 20060116796 | 1 | L1 |

END OF SEARCH HISTORY

First Hit Fwd Refs Previous Doc Next Doc Go to Doc#

**End of Result Set**

Generate Collection Print

L12: Entry 1 of 1 File: USPT Jan 25, 2005

US-PAT-NO: 6847872
DOCUMENT-IDENTIFIER: US 6847872 B2

TITLE: Supplemental diagnostic and services resource planning for mobile systems

DATE-ISSUED: January 25, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Bodin; William Kress | Austin | TX | | |
| Thorson; Derral C. | Austin | TX | | |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|---|---|---|---|---|---|
| International Business Machines Corporation | Armonk | NY | | | 02 |

APPL-NO: 10/290399 [PALM]
DATE FILED: November 7, 2002

PARENT-CASE:
CROSS-REFERENCE TO RELATED APPLICATIONS (CLAIMING BENEFIT UNDER 35 U.S.C. 120) This application is related to U.S. patent application Ser. No. 10/232,246, docket number AUS920020344US1, filed on Aug. 29, 2002, by William Kress Bodin, et al.

INT-CL-ISSUED: [07] G05B 13/02

INT-CL-CURRENT:

| TYPE | IPC | DATE |
|---|---|---|
| CIPS | G08 G 1/123 | 20060101 |
| CIPS | G06 Q 10/00 | 20060101 |
| CIPS | G07 C 5/00 | 20060101 |

US-CL-ISSUED: 701/33; 701/29, 701/30, 701/31, 701/32, 701/36, 701/114, 340/438, 340/439, 702/182, 702/183, 702/185
US-CL-CURRENT: 701/33; 340/438, 340/439, 701/114, 701/29, 701/30, 701/31, 701/32, 701/36, 702/182, 702/183, 702/185

FIELD-OF-CLASSIFICATION-SEARCH: 701/1, 701/2, 701/36, 701/29, 701/30, 701/33, 701/31, 701/32, 701/14, 340/438, 340/439, 379/127.01, 702/185, 702/183, 702/182, 73/117.3
See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected | Search ALL | Clear

| | PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
|---|---|---|---|---|
| ☐ | 5210789 | May 1993 | Jeffus et al. | 379/127.01 |
| ☐ | 5214582 | May 1993 | Gray | 701/33 |
| ☐ | 5442553 | August 1995 | Parrilo | 455/420 |
| ☐ | 5815071 | September 1998 | Doyle | 340/439 |
| ☐ | 5922037 | July 1999 | Potts | 701/29 |
| ☐ | 6094609 | July 2000 | Arjomand | 701/29 |
| ☐ | 6285931 | September 2001 | Hattori et al. | 701/29 |
| ☐ | 6292724 | September 2001 | Apsell et al. | 701/29 |
| ☐ | 6339736 | January 2002 | Moskowitz et al. | 701/29 |
| ☐ | 6370454 | April 2002 | Moore | 701/29 |
| ☐ | 6529808 | March 2003 | Diem | 701/29 |
| ☐ | 6640166 | October 2003 | Liebl et al. | 701/29 |
| ☐ | 6647328 | November 2003 | Walker | 701/36 |
| ☐ | 2001/0037168 | November 2001 | Hozuka | 701/29 |
| ☐ | 2001/0056544 | December 2001 | Walker | 713/200 |
| ☐ | 2002/0045976 | April 2002 | Kodama | 701/29 |
| ☐ | 2002/0077780 | June 2002 | Liebl et al. | 702/183 |
| ☐ | 2002/0077781 | June 2002 | Liebl et al. | 702/183 |
| ☐ | 2003/0093187 | May 2003 | Walker | 701/1 |

OTHER PUBLICATIONS

"Information Everywhere: New Opportunities for Pervasive Technology", IBM Corp., Mar. 2000, 8 pages.

ART-UNIT: 3661

PRIMARY-EXAMINER: Chin; Gary

ASSISTANT-EXAMINER: Marc; McDieunel

ATTY-AGENT-FIRM: Frantz; Robert H. Walker; Mark S. Byrd; Cynthia

ABSTRACT:

Diagnostic codes from a vehicle or other system in transit are transmitted to an opportunity server, which forwards the codes to a supplemental diagnostic service provider. The diagnostic service provider determines if supplemental diagnostics software functions are available, and if so, downloads them to the vehicle. After

executing the supplemental diagnostics, the vehicle reports updated codes to the opportunity server. Multiple cycles of selection, downloading and execution of supplemental diagnostics may be performed until fault isolation is achieved, following which the opportunity server issues requests for bids to potential repair service provides. Responding offers are received, coalesced and presented to the operator. The operator of the vehicle is presented with one or more coalesced offers, upon selection of which, a service is scheduled.

15 Claims, 4 Drawing figures

Previous Doc Next Doc Go to Doc#

First Hit Fwd Refs Previous Doc Next Doc Go to Doc#
**End of Result Set**

Generate Collection Print

L2: Entry 1 of 1 File: USPT Jan 25, 2005

Bodin → no SIM.

DOCUMENT-IDENTIFIER: US 6847872 B2
TITLE: Supplemental diagnostic and services resource planning for mobile systems

Brief Summary Text (9):
This invention relates to the technologies of automated and preemptive service determination, brokering and scheduling for moving systems such as automobiles, trains, trucks, ships, and aircraft. The invention relates more particularly to systems for remotely providing enhanced and supplemental diagnostics, and subsequently performing enhanced materials and resource planning based upon such results.

Detailed Description Text (30):
The enhanced ECM (20) is also provided with location means, such as a GPS receiver or LBS-enabled wireless interface (25, 26), as well as a real-time clock (200). The location of the vehicle at the time of the detected event is recorded either with each DTC or in a separate DTC associated with the first DTC. Contact is then initiated through a wireless network interface (28, 29), such as a PCS interface, to the remote opportunity server, and the DTC's are transmitted or uploaded to the server.

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10/541,036

# Refine Search

**Search Results -**

| Terms | Documents |
|---|---|
| L16 and (simulat$ with sens$ with (data or signal)) | 0 |

**Database:** US Pre-Grant Publication Full-Text Database; US Patents Full-Text Database; US OCR Full-Text Database; EPO Abstracts Database; JPO Abstracts Database; Derwent World Patents Index; IBM Technical Disclosure Bulletins

**Search:** L20

Refine Search | Recall Text | Clear | Interrupt

**Search History**

**DATE: Friday, September 29, 2006** Purge Queries | Printable Copy | Create Case

| Set Name side by side | Query | Hit Count | Set Name result set |
|---|---|---|---|
| *DB=EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR* | | | |
| L20 | L16 and (simulat$ with sens$ with (data or signal)) | 0 | L20 |
| L19 | L16 and (simulat$ with sens$ with (data or signal)) | 0 | L19 |
| L18 | L16 and (simulat$ with sens$ wit (data or signal)) | 4 | L18 |
| *DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR* | | | |
| L17 | L16 and (simulat$ with sens$) | 54 | L17 |
| L16 | (control$ same (vessel$ or ship$ or boat$)) and (roll$ and pitch$ and sens$ and angle$) | 1838 | L16 |
| L15 | L14 and (roll$ and pitch$ and sens$ and angle$) | 13 | L15 |
| L14 | 701/21.ccls. | 216 | L14 |
| L13 | L12 and (simulat$ same sens$) | 0 | L13 |
| L12 | L11 and (control$ same (vessel$ or ship$ or boat$)) | 1 | L12 |
| L11 | L6 or L7 or L10 | 107 | L11 |

*DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR*

| | | | |
|---|---|---|---|
| L10 | (5003477 \| 4796206 \| 4300205 \| 5077670 \| 4862371 \| 4757463 \| 5041976)![PN] | 7 | L10 |
| L9 | ("5214582")[PN] | 1 | L9 |

*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR*

| | | | |
|---|---|---|---|
| L8 | L3 | 1 | L8 |

*DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR*

| | | | |
|---|---|---|---|
| L7 | ("5214582")[URPN] | 99 | L7 |

*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR*

| | | | |
|---|---|---|---|
| L6 | L3 | 1 | L6 |

*DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR*

| | | | |
|---|---|---|---|
| L5 | L3 and roll$ | 0 | L5 |
| L4 | L3 and angle$ | 1 | L4 |
| L3 | 5214582.pn. | 1 | L3 |

*DB=PGPB; THES=ASSIGNEE; PLUR=YES; OP=OR*

| | | | |
|---|---|---|---|
| L2 | L1 and angle$ | 1 | L2 |
| L1 | 20060116796 | 1 | L1 |

END OF SEARCH HISTORY

# Hit List

First Hit Your wildcard search against 10000 terms has yielded the results below.

***Your result set for the last L# is incomplete.***

The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

**Search Results** - Record(s) 1 through 10 of 13 returned.

☐ 1. Document ID: US 20060064211 A1

L15: Entry 1 of 13 File: PGPB Mar 23, 2006

PGPUB-DOCUMENT-NUMBER: 20060064211
PGPUB-FILING-TYPE:
DOCUMENT-IDENTIFIER: US 20060064211 A1

TITLE: Method for testing of a combined dynamic positioning and power management system

PUBLICATION-DATE: March 23, 2006

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|---|---|---|---|
| Johansen; Tor Arne | Vikhamar | | NO |
| Sorensen; Asgeir Johan | Flatasen | | NO |
| Skjetne; Roger | Trondheim | | NO |

US-CL-CURRENT: 701/21

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. De

☐ 2. Document ID: US 20040073343 A1

L15: Entry 2 of 13 File: PGPB Apr 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040073343
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040073343 A1

TITLE: Nonlinear active control of dynamical systems

PUBLICATION-DATE: April 15, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|---|---|---|---|
| Nayfeh, Ali Hasan | Blacksburg | VA | US |

| | | | |
|---|---|---|---|
| Mook, Dean Trischler | Blacksburg | VA | US |
| Henry, Ryan James | Annapolis | MD | US |
| Masoud, Zivad Navif | Blacksburg | VA | US |

US-CL-CURRENT: 701/21

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 3. Document ID: US 20040015277 A1

L15: Entry 3 of 13 File: PGPB Jan 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040015277
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040015277 A1

TITLE: Autonomous surface watercraft

PUBLICATION-DATE: January 22, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|---|---|---|---|
| Cardoza, Miguel A. | Round Rock | TX | US |
| Benedict, Sarah | Austin | TX | US |
| Mayoral, Anne | Austin | TX | US |
| Bennett, Matthew | Austin | TX | US |
| Hughes, J. Clark | Austin | TX | US |
| Tucker, Donald | Austin | TX | US |

US-CL-CURRENT: 701/21; 114/144A

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 4. Document ID: US 20030191562 A1

L15: Entry 4 of 13 File: PGPB Oct 9, 2003

PGPUB-DOCUMENT-NUMBER: 20030191562
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030191562 A1

TITLE: Boat positioning and anchoring system

PUBLICATION-DATE: October 9, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|---|---|---|---|
| Robertson, Glen E. | Sarasota | FL | US |
| Webster, John L. | Huntsville | AL | US |

US-CL-CURRENT: 701/21; 114/144B, 701/213

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 5. Document ID: US 20020161491 A1

L15: Entry 5 of 13 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020161491
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020161491 A1

TITLE: METHOD FOR CONTROLLING LATERAL POSITION OF AN UNDERWATER TOWED BODY

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|---|---|---|---|
| Crane, Jan W. | Panama City | FL | US |
| Rodriguez, Rafael R. | Panama City | FL | US |

US-CL-CURRENT: 701/21

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 6. Document ID: US 6678589 B2

L15: Entry 6 of 13 File: USPT Jan 13, 2004

US-PAT-NO: 6678589
DOCUMENT-IDENTIFIER: US 6678589 B2

TITLE: Boat positioning and anchoring system

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 7. Document ID: US 6611737 B1

L15: Entry 7 of 13 File: USPT Aug 26, 2003

US-PAT-NO: 6611737
DOCUMENT-IDENTIFIER: US 6611737 B1

TITLE: Advanced ship autopilot system

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 8. Document ID: US 6470246 B1

L15: Entry 8 of 13 File: USPT Oct 22, 2002

US-PAT-NO: 6470246
DOCUMENT-IDENTIFIER: US 6470246 B1

TITLE: Method for controlling lateral position of an underwater towed body

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 9. Document ID: US 6459990 B1

L15: Entry 9 of 13 File: USPT Oct 1, 2002

US-PAT-NO: 6459990
DOCUMENT-IDENTIFIER: US 6459990 B1

TITLE: Self-contained positioning method and system thereof for water and land vehicles

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 10. Document ID: US 5406488 A

L15: Entry 10 of 13 File: USPT Apr 11, 1995

US-PAT-NO: 5406488
DOCUMENT-IDENTIFIER: US 5406488 A

TITLE: Correction of errors in autopilots

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

| Terms | Documents |
|---|---|
| L14 and (roll$ and pitch$ and sens$ and angle$) | 13 |

**Display Format:** - Change Format

Previous Page Next Page Go to Doc#

# Hit List

First Hit

Your wildcard search against 10000 terms has yielded the results below.

***Your result set for the last L# is incomplete.***

The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

**Search Results** - Record(s) 11 through 13 of 13 returned.

☐ 11. Document ID: US 4524710 A

L15: Entry 11 of 13 File: USPT Jun 25, 1985

US-PAT-NO: 4524710
DOCUMENT-IDENTIFIER: US 4524710 A

TITLE: Automatic trim system for hydrofoil craft

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 12. Document ID: US 4159690 A

L15: Entry 12 of 13 File: USPT Jul 3, 1979

US-PAT-NO: 4159690
DOCUMENT-IDENTIFIER: US 4159690 A

TITLE: Automatic landing system for hydrofoil craft

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 13. Document ID: US 4069784 A

L15: Entry 13 of 13 File: USPT Jan 24, 1978

US-PAT-NO: 4069784
DOCUMENT-IDENTIFIER: US 4069784 A

TITLE: Method and device for producing substantially kinematic steering of a vessel

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

| Terms | Documents |
|---|---|
| L14 and (roll$ and pitch$ and sens$ and angle$) | 13 |

**Display Format:** - Change Format

Previous Page Next Page Go to Doc#

First Hit Previous Doc Next Doc Go to Doc#

Generate Collection Print

L18: Entry 1 of 4 File: TDBD Nov 1, 1994

TDB-ACC-NO: NN9411499

DISCLOSURE TITLE: Attitude Sensing and Control for Helicopters

PUBLICATION-DATA:
IBM Technical Disclosure Bulletin, November 1994, US

VOLUME NUMBER: 37
ISSUE NUMBER: 11
PAGE NUMBER: 499 - 502

PUBLICATION-DATE: November 1, 1994 (19941101)

CROSS REFERENCE: 0018-8689-37-11-499

DISCLOSURE TEXT:

This document contains drawings, formulas, and/or symbols that will not appear on line. Request hardcopy from ITIRC for complete article. Landing a helicopter in a confined space is a difficult task for a pilot. It is further compounded when the landing surface is moving in an undefined and variable manner, as when landing on the deck of a ship, for example. For accurate control of the helicopter during descent the pilot needs to know the height and attitude of the deck relative to his aircraft. The height is usually given to him by dual redundant radio altimeters, but these are not sufficiently accurate in the later stages of descent (below 10 metres). More importantly they also do not give an indication of relative attitude (roll) to the landing surface. The relative attitude of the deck is not available visually because of the pilot's field of view when he is in position for descent. Generally a pilot will position the helicopter to one side of the moving ship and get a feel for the relative motion and then quickly move into position and put down swiftly. This is hazardous and not always predictable. At night the dangers are increased. These problems are substantially reduced by the use of a high frequency radio transmitter and dual receivers as a means of detecting the height and positional attitude of the helicopter above the landing platform (Fig. 1).



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L18: Entry 2 of 4 File: DWPI Jan 22, 1997

DERWENT-ACC-NO: 1997-089199
DERWENT-WEEK: 199713


TITLE: Ship stabiliser esp. to control pitching - has bow-mounted lateral hydroplanes, rotatable about transverse axis by controller responding to acceleration, angular speed, roll, and pitch sensors

INVENTOR: BERNE, J

PATENT-ASSIGNEE: SOC NOUV ATELIERS & CHANTIERS DU HAVRE (CHANN)

PRIORITY-DATA: 1995FR-0008856 (July 21, 1995)



PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| EP 754618 A1 | January 22, 1997 | F | 010 | B63B039/06 |
| FR 2736888 A1 | January 24, 1997 | | 000 | B63B039/06 |

DESIGNATED-STATES: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

CITED-DOCUMENTS:1.Jnl.Ref; DE 2013048 ; GB 799795 ; GB 825134 ; GB 881681 ; GB 999306 ; US 1800365 ; US 4776294 ; US 5033694 ; US 5235926 ; US 5511504 ; WO 9212046

APPLICATION-DATA:

| PUB-NO | APPL-DATE | APPL-NO | DESCRIPTOR |
|---|---|---|---|
| EP 754618A1 | July 15, 1996 | 1996EP-0401562 | |
| FR 2736888A1 | July 21, 1995 | 1995FR-0008856 | |

INT-CL (IPC): B63B 39/06

ABSTRACTED-PUB-NO: EP 754618A

BASIC-ABSTRACT:

The stabiliser includes hydroplanes (2a, 2b) which project on horizontal, or downward inclined axes from bearings mounted in the submerged bow bulb. To control pitching only, a controller, reacting to sensor signals, applies common angles of incidence via a hydraulic or electrical actuator. The surfaces are e.g mounted on the same transverse shaft.

The equipment may additionally counteract rolling, with independently operated control surfaces given opposing angles of incidence. The bulb compartment (3) can

be divided centrally, with hydroplane assemblies swivelling on vertical axes (ZZ') independently retractable in fair weather or for berthing (2b). On striking a submerged obstacle, an assembly, latched (13a, 14a, 15a) when extended, is freed (13b, 14b, 15b) and retracts (12b). Single or paired auxiliary trailing edge surfaces (6) optimise water flow and thrust.

USE/ADVANTAGE - Esp. in merchant or naval vessels 50-250 m long. Allows to simultaneously correct pitching and pounding.

ABSTRACTED-PUB-NO: EP 754618A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.10/18

DERWENT-CLASS: Q24 W06
EPI-CODES: W06-C01A5;

Previous Doc Next Doc Go to Doc#

L18: Entry 3 of 4 File: DWPI Apr 30, 1996

DERWENT-ACC-NO: 1996-229392
DERWENT-WEEK: 199624


TITLE: Computer controlled fins to improve seakeeping in marine vessels e.g. SWATH type vessels - use roll and pitch, angle and rate sensors to send signals to control fins so they counteract roll and pitch, with accelerometers allowing for counteract of heave and vertical movement

INVENTOR: MARTIN, J R

PATENT-ASSIGNEE: MARTIN J R (MARTI)

PRIORITY-DATA: 1995US-0512990 (August 9, 1995)



PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 5511504 A | April 30, 1996 | | 009 | B63B001/10 |

APPLICATION-DATA:

| PUB-NO | APPL-DATE | APPL-NO | DESCRIPTOR |
|---|---|---|---|
| US 5511504A | August 9, 1995 | 1995US-0512990 | |

INT-CL (IPC): B63B 1/10

ABSTRACTED-PUB-NO: US 5511504A
BASIC-ABSTRACT:

The computer controlled fins are mounted on the pontoons of the vessel. The control system includes roll angle and pitch angle sensors, with roll rate and pitch rate sensors for developing damping signals, with all the signals used to control the control fins to counteract roll and pitch. In addition, individual accelerometers are mounted to the vessel at different locations to sense vertical acceleration of the vessel. These signals control the control fins to provide improved control of roll and pitch, and also to counteract any heave or vertical movement of the vessel.

Additionally, draft sensors are mounted to the vessel to generate draft or depth of immersion signals. These signals override the roll, pitch and heave signals to cause vertical movement of the vessel to counteract incipient slamming or broaching of the vessel.

ADVANTAGE - The roll and pitch angle and rate sensors together with accelerometers and draft sensors provide a highly controlled and stable system for this type of vessel.

ABSTRACTED-PUB-NO: US 5511504A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/3

DERWENT-CLASS: Q24 W06
EPI-CODES: W06-C01A5;

Previous Doc Next Doc Go to Doc#

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**End of Result Set**

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L18: Entry 4 of 4 File: DWPI Aug 4, 1995

DERWENT-ACC-NO: 1995-376002
DERWENT-WEEK: 200129


TITLE: Marine vessel antenna for communication with geostationary satellite - has revolution control part which rotates antenna in AZ axis according to information from infra-red disturbance sensor to compensate for pitch and roll motion of vessel

PATENT-ASSIGNEE: ANRITSU CORP (ANRI)

PRIORITY-DATA: 1993JP-0351728 (December 28, 1993)

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PATENT-FAMILY:

| | PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|---|
| ☐ | JP 07202544 A | August 4, 1995 | | 005 | H01Q003/08 |
| ☐ | JP 3165310 B2 | May 14, 2001 | | 005 | H01Q003/08 |

APPLICATION-DATA:

| PUB-NO | APPL-DATE | APPL-NO | DESCRIPTOR |
|---|---|---|---|
| JP 07202544A | December 28, 1993 | 1993JP-0351728 | |
| JP 3165310B2 | December 28, 1993 | 1993JP-0351728 | |
| JP 3165310B2 | | JP 7202544 | Previous Publ. |

INT-CL (IPC): H01Q 1/18; H01Q 1/34; H01Q 3/08

ABSTRACTED-PUB-NO: JP 07202544A
BASIC-ABSTRACT:

The antenna has an emission part (3) fixed to whose rotation is controlled along the EL axis. A sensor (6) detects the agitation of the vessels . A transmission part uses IR ray to transmit the edited signal from the sensor to an antenna control circuit (10).

The antenna control unit computes the AZ axis rotation angle whose AZ axis is along the emission part inclination direction from the value of the sensor and the angle of elevation of the EL axis is obtained from the transmission part. The antenna control circuit controls a revolution control part (9) which sets AZ axis at particular angle.

ADVANTAGE - Reduces noise. Fast, accurate control. Reduces wear on contacts.

ABSTRACTED-PUB-NO: JP 07202544A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/8

DERWENT-CLASS: W02 W06
EPI-CODES: W02-B06A; W02-B07A7; W02-B08F2; W02-C03B1C; W02-C03C3C; W06-C01B7;

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